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(54) Title: A GENOMIC APPROACH TO IDENTIFICATION OF NOVEL BROAD-SPECTRUM ANTIMICROBIAL PEPTIDES FROM BONY FISH

(57) Abstract: There is provided a method of identifying candidate nucleic acid sequences encoding antimicrobial peptides. The method comprises: identifying an initial peptide of interest; identifying genomic DNA encoding the initial peptide; identifying a flanking sequence on each side of the initial peptide; obtaining primers complementary to the flanking sequences; and, screening a wide range of nucleic acid sequences to identify candidate sequences capable of being amplified using the primers from step e). In some instances the antimicrobial peptide is a hepcidin or a pleurocidin.

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